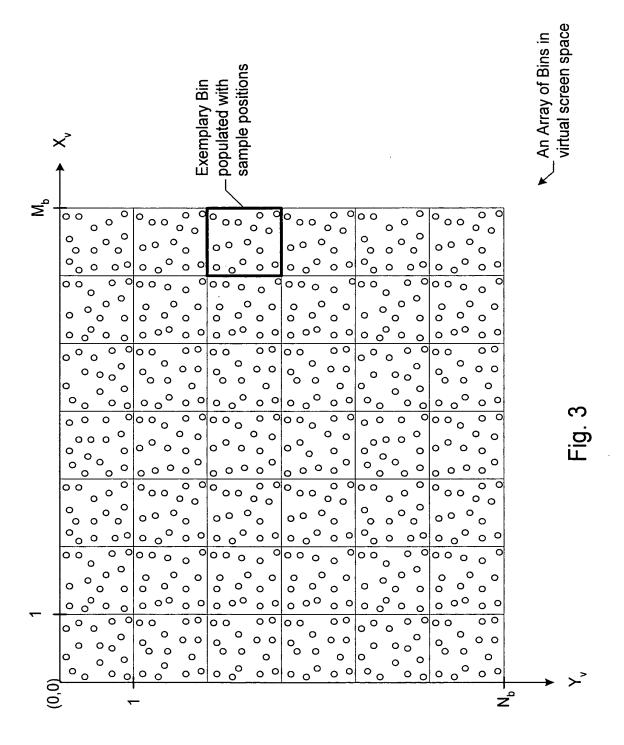
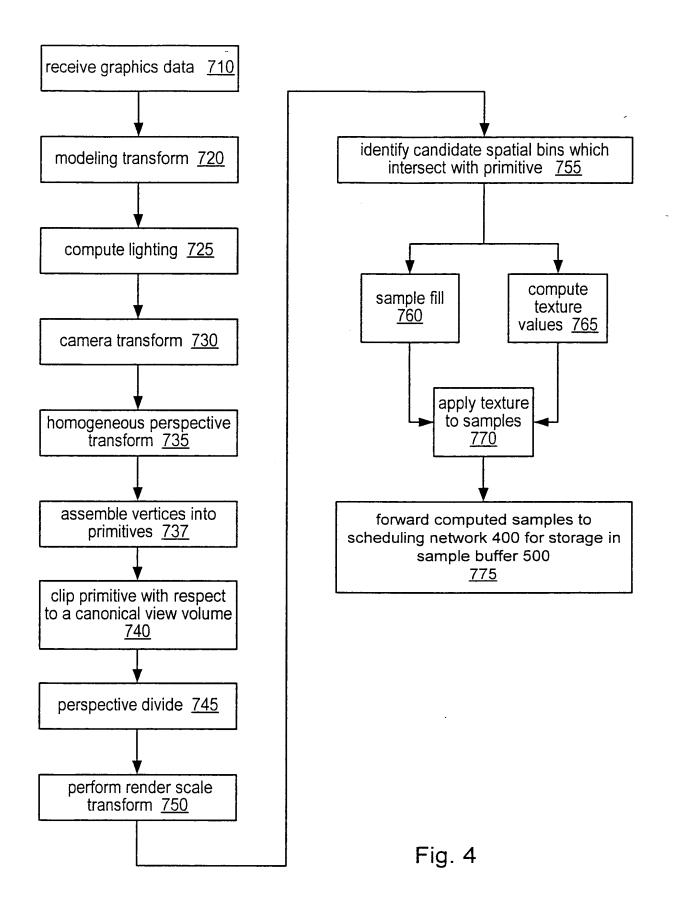


Fig. 2





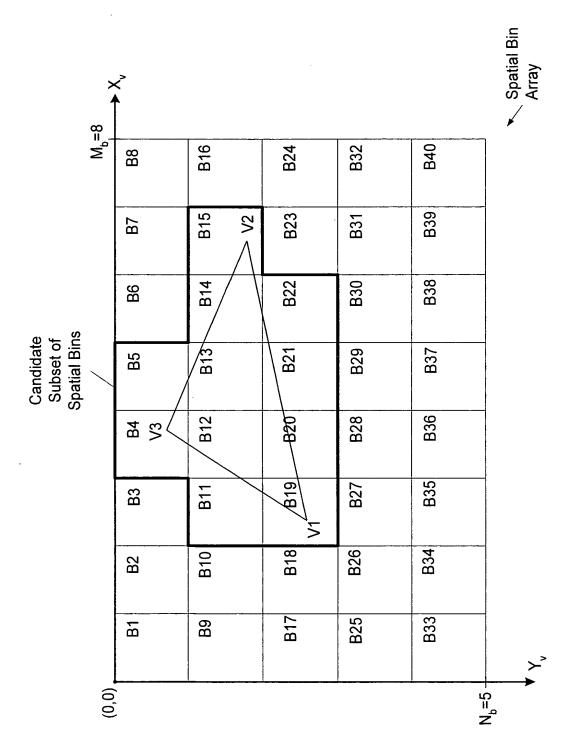


Fig. 5

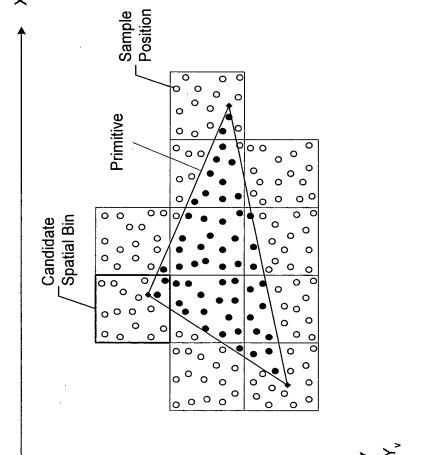


Fig. 6

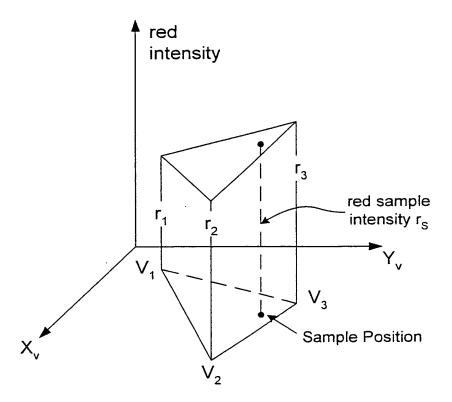
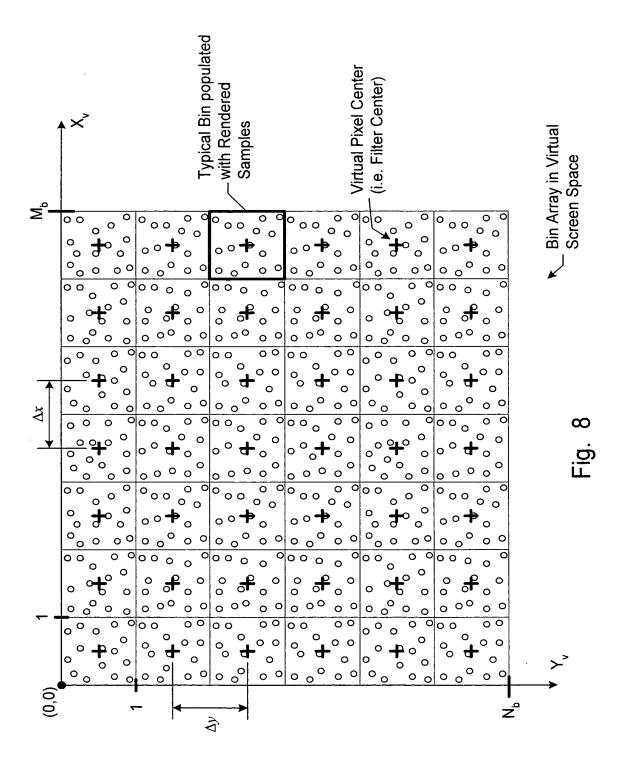
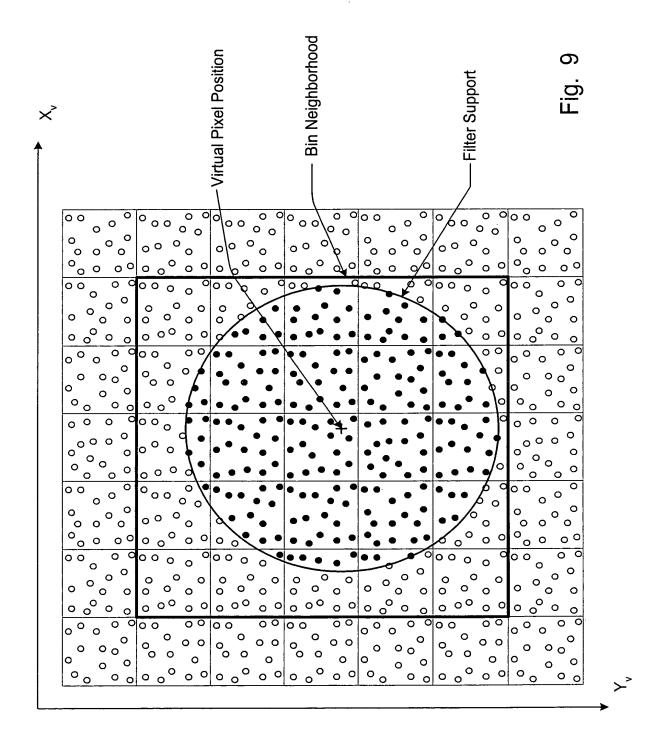


Fig. 7





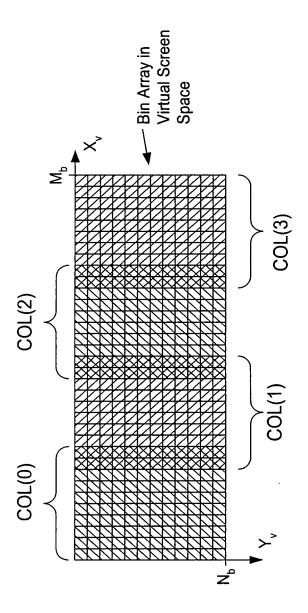


FIG. 10

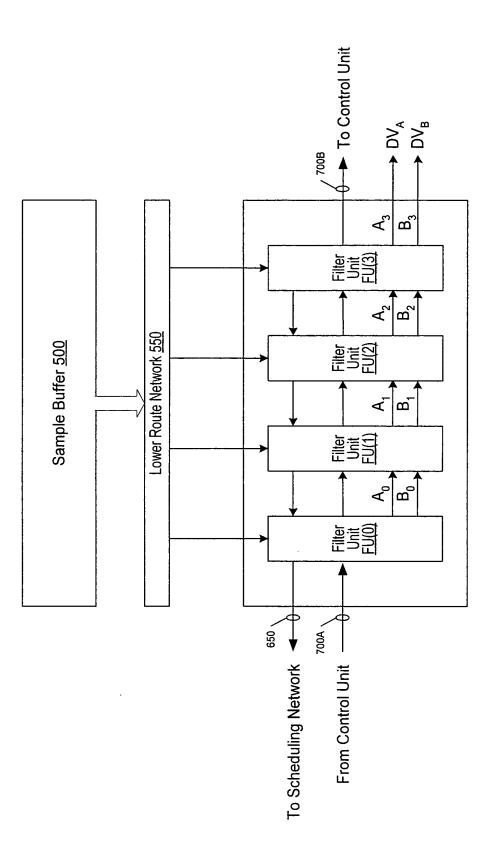


FIG. 11

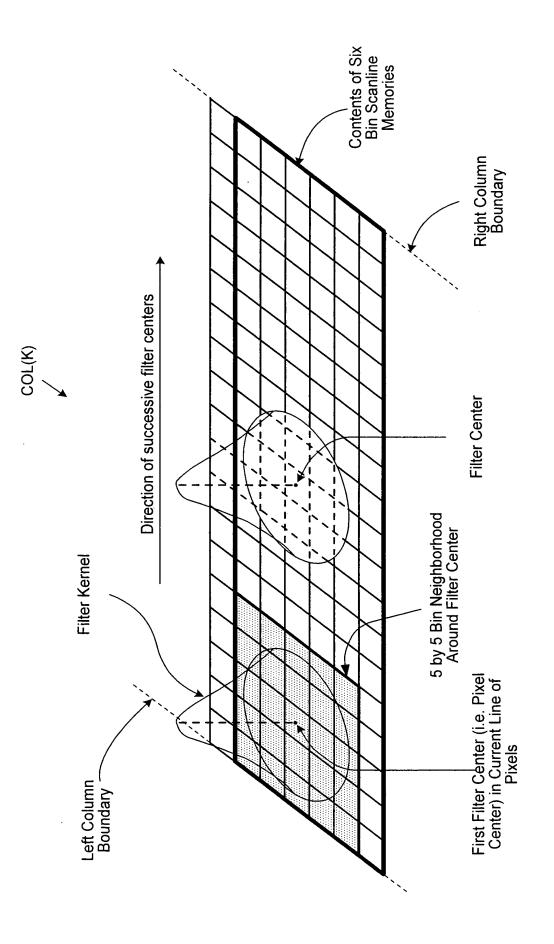


FIG. 12

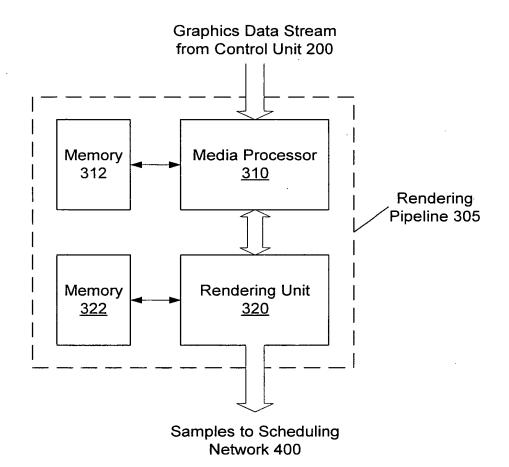
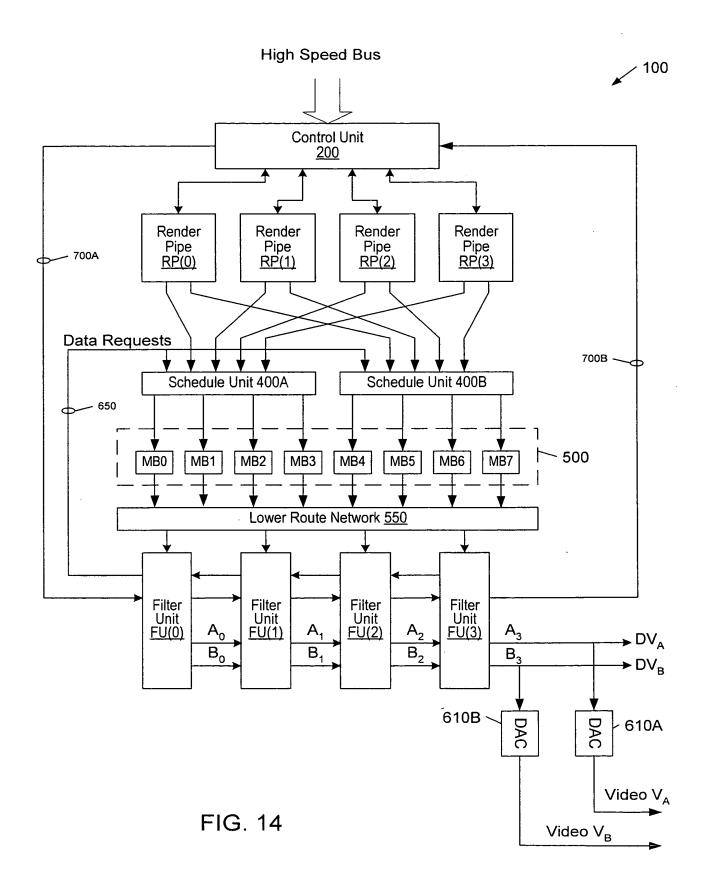


Fig. 13



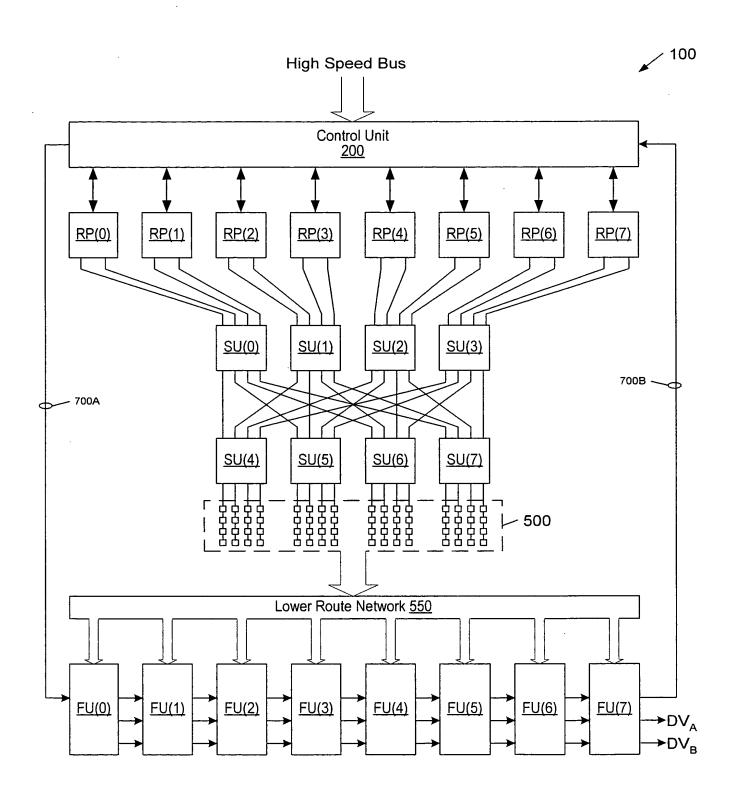


Fig. 15

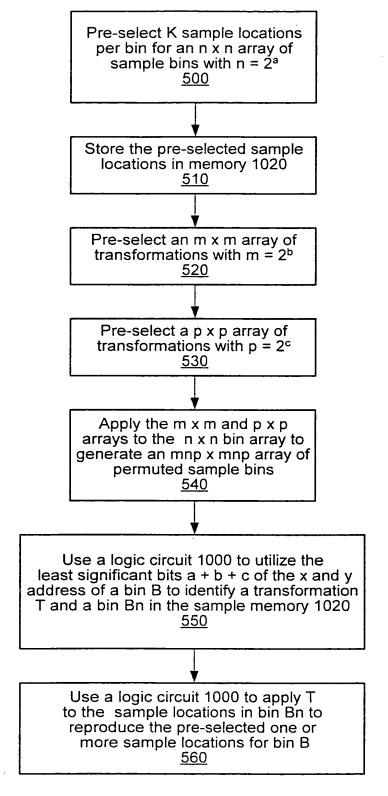


Fig. 16

# Populate a 2 x 2 Sample Bin Array

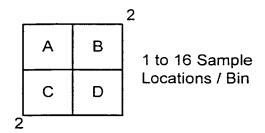


Fig. 17a

## Select an Array of Transformations from:

	iy	ix	s	Transformation
_	0	0	0	none
	0	0	1	swapXY: mirror about $y = -x -1$
	0	1	0	invertX: mirror about y
	0	1	1	rotate 270 degrees clockwise
	1	0	0	invertY: mirror about x
	1	0	1	rotate 90 degrees clockwise
	1	1	0	rotate 180 degrees
	1	1	1	mirror about y = x

Fig. 17b

# Inner Transformation Array (xb,yd),(xc,yb),(xd,yc)

### xd,xc,xb

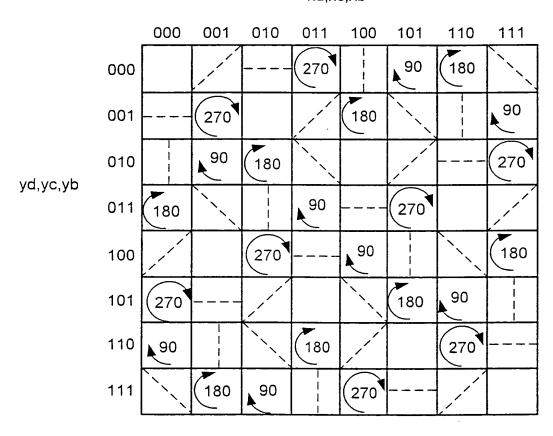


Fig. 18

# Outer Transformation Array (x4,y5),(x6,y4),(x5,y6)

#### x6,x5,x4

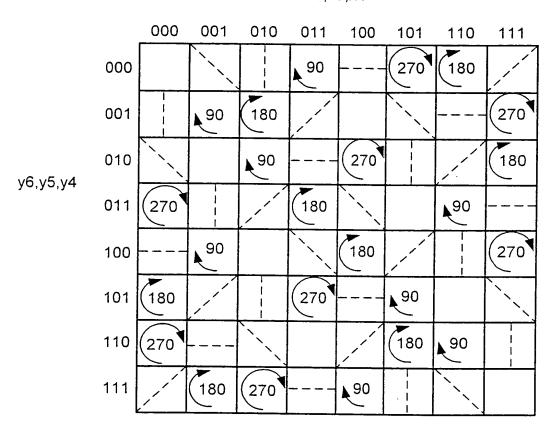
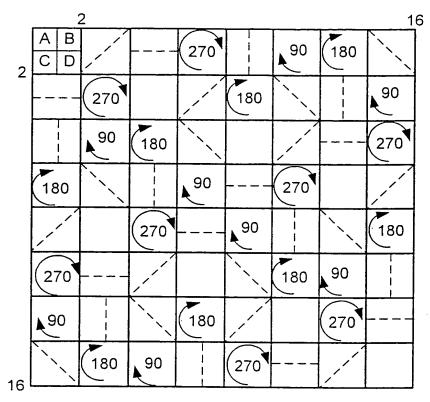
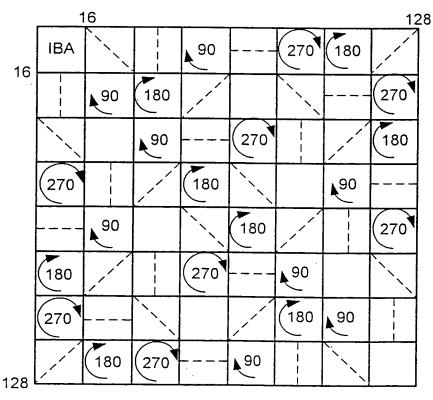


Fig. 19



Apply Inner
Transformation
Array to 2 x 2
Array to obtain
a 16 x 16
Inner Bin Array
(IBA)

Fig. 20a



Apply Outer Transformation Array to Inner Bin Array to obtain a 128 x 128 Outer Bin Array (OBA)

Fig. 20b

## Tile Outer Bin Array To Fill Sample Space

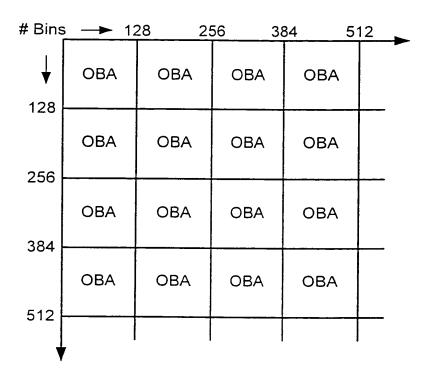
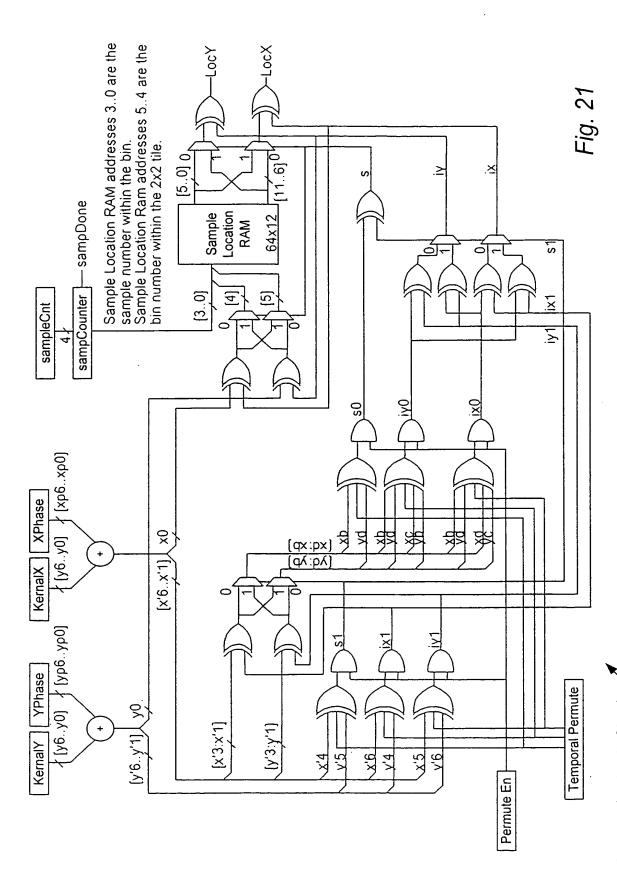
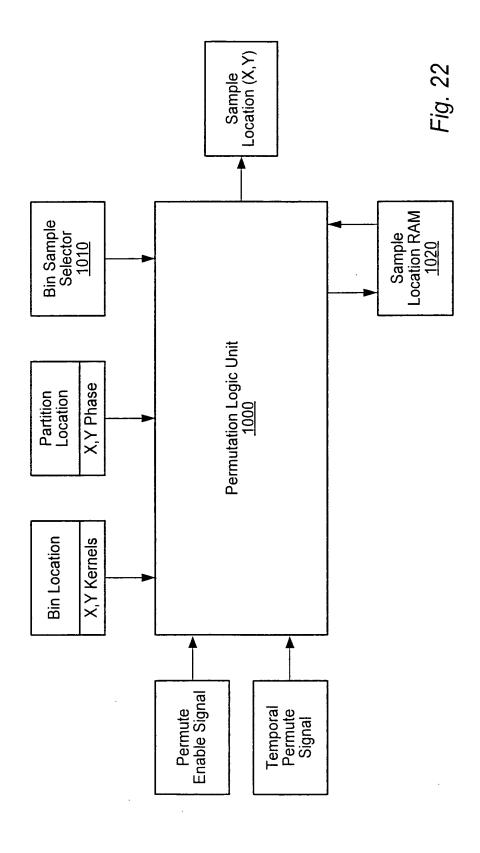
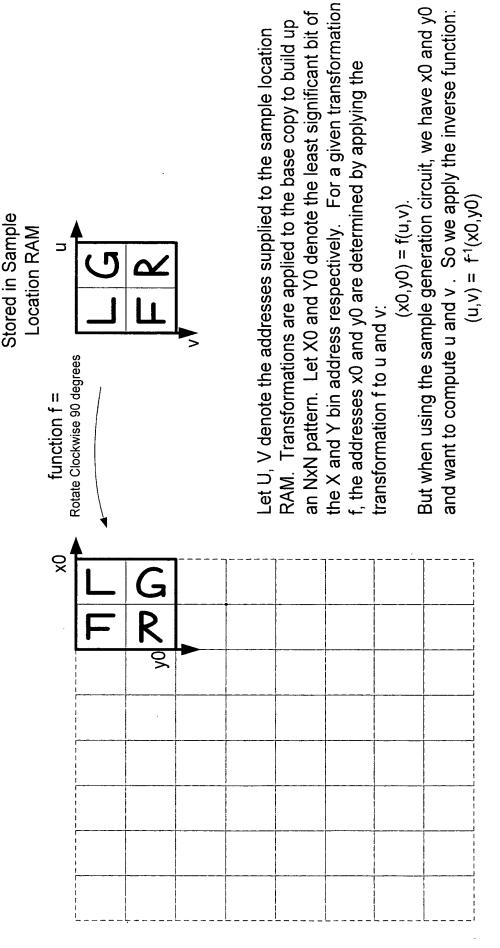


Fig. 20c



Permutation Logic Circuit





Base Copy of Tile

Fig. 23

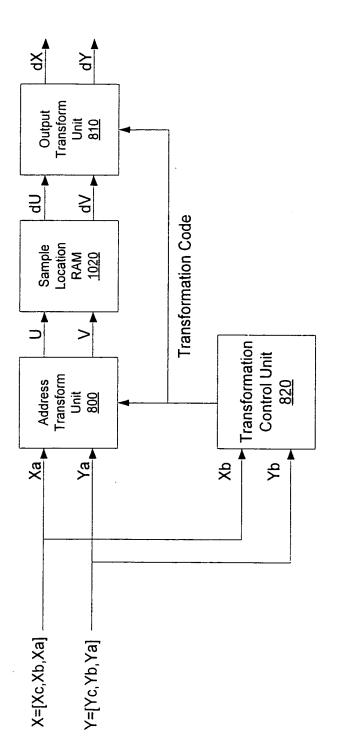


Fig. 24

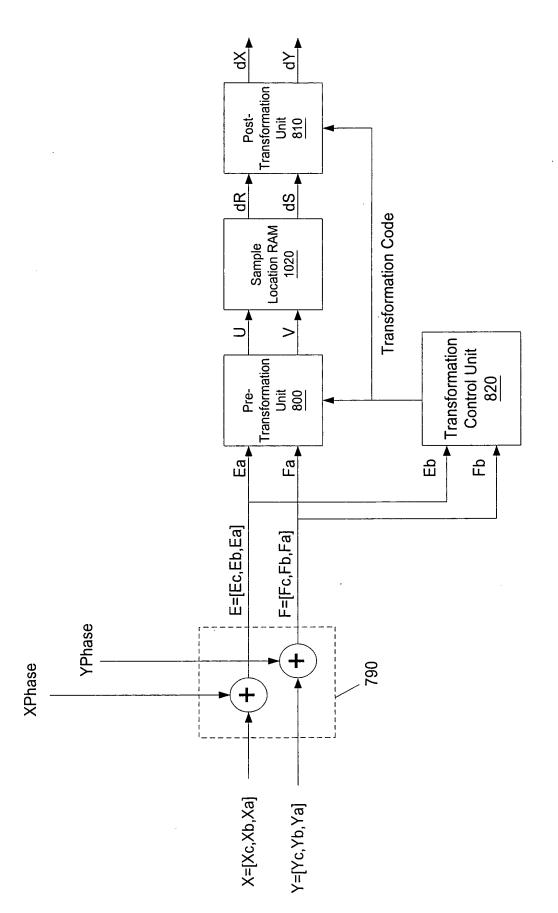
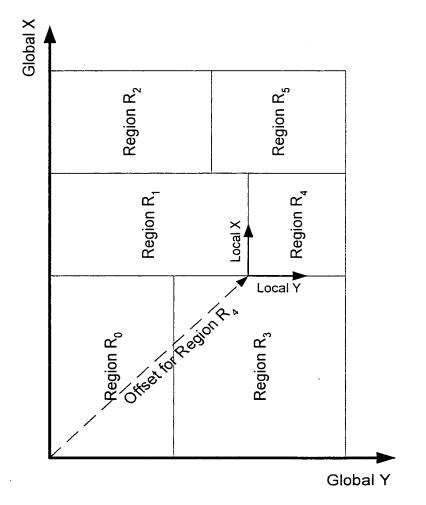


Fig. 25





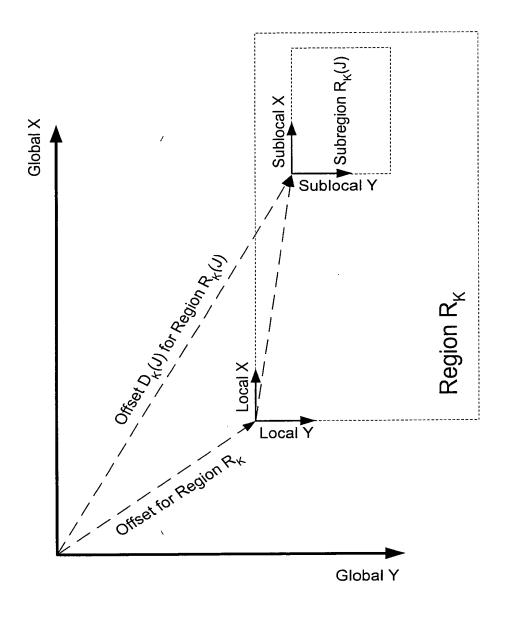
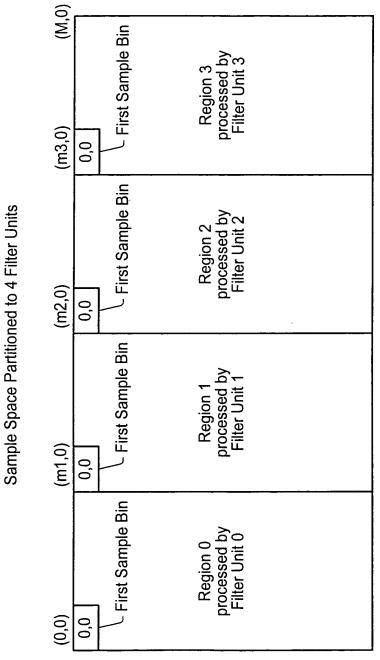


Fig. 27B



(N,0)

